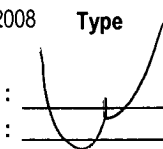


Date: Thursday, 06/11/2008 2:04:14 PM
 User: Linda Lacelle

Process Sheet

| | | | |
|------------------------------------|---|---------------------------|-------------|
| Customer : | CU-DAR001 Dart Helicopters Services | Drawing Name : | 6" MIRROR |
| Job Number : | 43235 | | |
| Estimate Number : | 10101 | | |
| P.O. Number : | | Part Number : | D2011101 |
| This Issue : | 06/11/2008 | Drawing Number : | D2011 REV G |
| Prsht Rev. : | NC | Project Number : | N/A |
| First Issue : | 06/11/2008 | Drawing Revision : | G |
| Previous Run : | 40739 | Material : | |
| Written By : |  | Due Date : | 13/11/2008 |
| Checked & Approved By : | | Qty: | 34 |
| Comment : | Um: Each | | |
| | Type : PURCHASED PARTS Est: J 04.09.15 Added Steps 5-7 KJ/JLM Est: K 05.12.15 chg black sikaflex for white EC Est L 08.11.06 new drawing EC verify: DD | | |

Additional Product

Job Number:



| Seq. #: | Machine Or Operation: | Description : |
|---------|-----------------------|---------------|
|---------|-----------------------|---------------|

| | | |
|-----|----|------------|
| 1.0 | PG | PURCHASING |
|-----|----|------------|



Comment: PURCHASING

| | | |
|-----|----------|-----------|
| 2.0 | CHM10601 | Mirror 6" |
|-----|----------|-----------|



R10: 7526 C208111106 (31)



Comment: Qty.: 1.0000 Each(s)/Unit Total : 30.0000 Each(s)
 Mirror 6"

| | | |
|-----|-------------|-----------------------|
| 3.0 | PACKAGING 1 | PACKAGING RESOURCE #1 |
|-----|-------------|-----------------------|



Comment: PACKAGING RESOURCE #1
 Recieve & Inspect for Transit Damage
 Ensure Material Release Note is attached

| | | |
|-----|-----|-------------------|
| 4.0 | QC6 | DIMENSIONAL CHECK |
|-----|-----|-------------------|



Comment: DIMENSIONAL CHECK

R 8/4/14 (31)
 S 08/11/18 (x31) counters

| | | |
|-----|-------|---------------|
| 5.0 | D2829 | Threaded Stud |
|-----|-------|---------------|



Comment: Qty.: 1.0000 Each(s)/Unit Total : 30.0000 Each(s)
 Threaded Stud

B43254

E 08/11/19

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Date: Thursday, 06/11/2008 2:04:14 PM
User: Linda Lacelle

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: 6" MIRROR

Job Number: 43235

Part Number: D2011101

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

D30141

Locknut



Comment: Qty.: 1.0000 Each(s)/Unit Total: 30.0000 Each(s)

Locknut

Pick:

Qty Part Number Description Batch

1 D3014-1 Lock nut *D25021*

EF 08/11/19

7.0

AN960JD416L

Washer



Comment: Qty.: 1.0000 Each(s)/Unit Total: 30.0000 Each(s)

Washer

Pick:

Qty Part Number Description Batch

1 AN960JD416L Washer *M109388*

EF 08/11/19

8.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

1- Discard Hardware & Install new hardware loosely

2- Crimp stud as per Dwg D2011

EF 08/11/19 (31)

9.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

4- Test assembly to 500lbs pull test after 24 hours

Soaker counter (x30)

N/A Done at Step 4.0 5

10.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: *ST 221*

JS 08/11/20 (x31)

11.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

08/11/24

Job Completion



MF 08-11-21

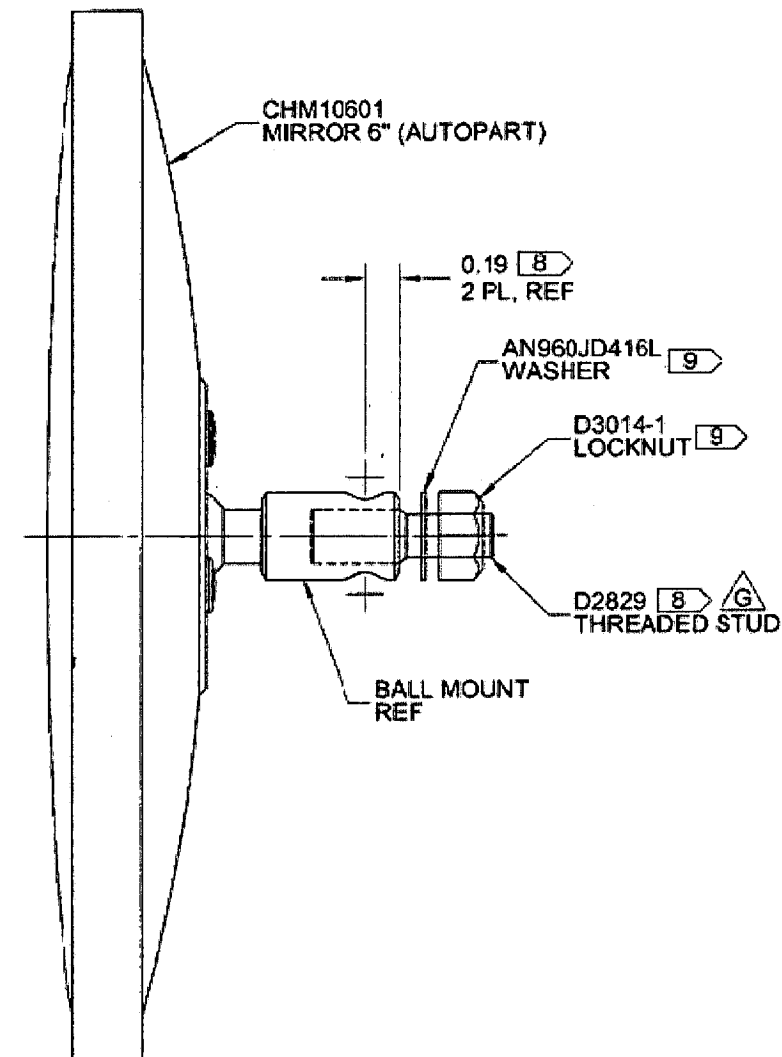
| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

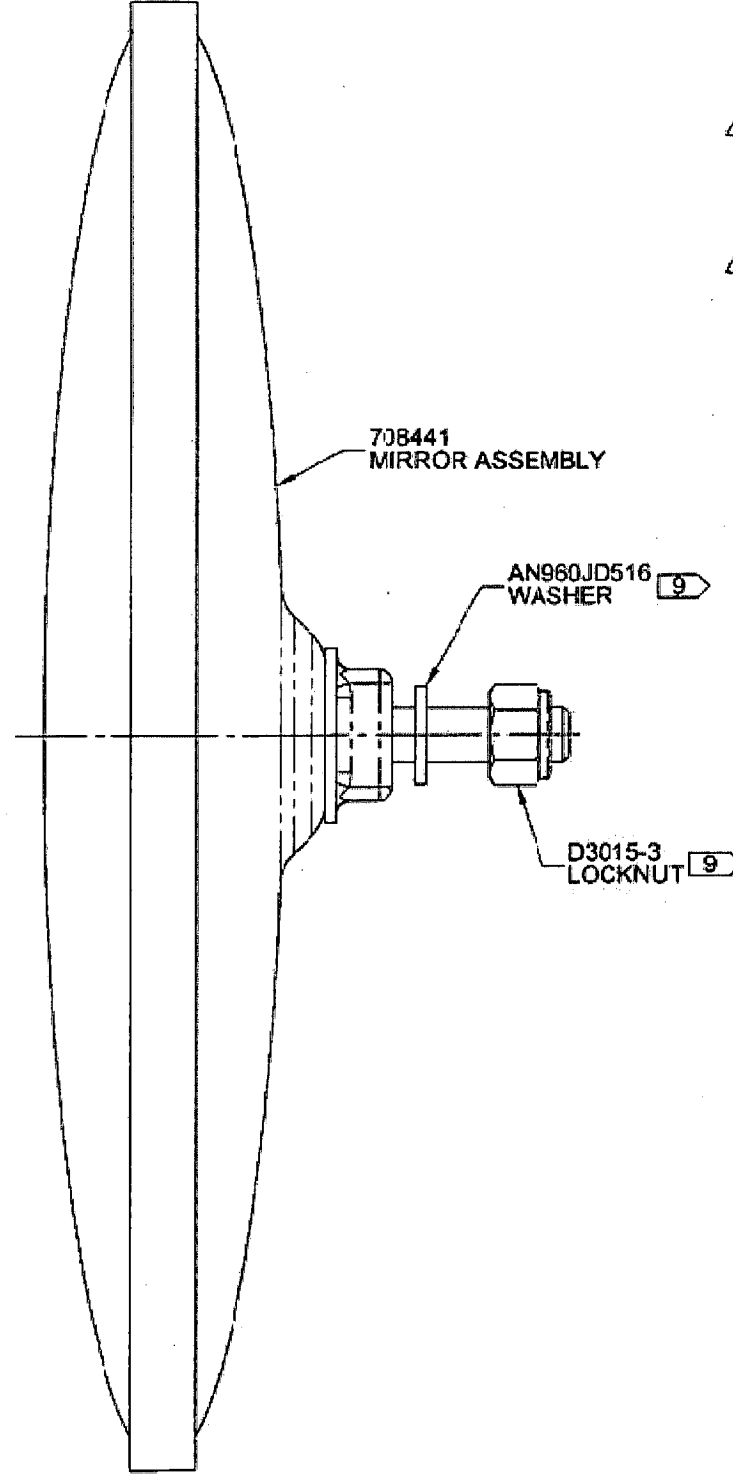
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries



D2011-101 MIRROR ASSEMBLY 6"



D2011-103 MIRROR ASSEMBLY 8"

| ITEM | QTY -101 | QTY -103 | P/N | DESCRIPTION |
|------|----------|----------|-------------|----------------------|
| 1 | X | | D2011-101 | MIRROR ASSEMBLY 6" |
| 2 | | X | D2011-103 | MIRROR ASSEMBLY 8" |
| 3 | 1 | | D2829 | THREADED STUD |
| 4 | 1 | | D3014-1 | LOCKNUT |
| 5 | | 1 | D3015-3 | LOCKNUT |
| 6 | 1 | | CHM10601 | MIRROR 6" (AUTOPART) |
| 7 | | 1 | 708441 | MIRROR 8" (VELVAC) |
| 8 | 1 | | AN960JD416L | WASHER |
| 9 | | 1 | AN960JD516 | WASHER |

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: D2011-101 = 0.6 lbs APPROX. ; D2011-103 = 1.0 lbs APPROX.
 - 8) D2829 INSTALLATION PROCEDURE:
 - APPLY LOCKTITE 262 TO Ø 5/16 END OF D2829
 - THREAD BY HAND INTO BALL MOUNT UNTIL ENTIRE Ø 5/16 END OF D2829 IS WITHIN BALL MOUNT
 - CRIMP BALL MOUNT ON TWO OPPOSING SIDES, 0.19 FROM END AS ILLUSTRATED USING TOOL DT8317
 - CRIMP TO DEPTH OF 0.040 ± 0.010 USING R0.125
 - 9) INSTALL LOOSE

| G | REDRAWN IN SOLIDWORKS TO CURRENT STANDARD AND TRANSFERRED TO "B" SIZE FORMAT. MIRROR 6" (AUTOPART) AND CHM10601 WERE MIRROR 6" (GROTE) AND P/N 28043 (ZN D3-1); ADDED D2829 (ZN D3-1 AND ZN C6-1); REMOVED DRILLING NOTE, VIEW A-A AND SIKAFLEX APPLICATION NOTE. REASON: GROTE PRODUCT IS DISCONTINUED | MB | 08.10.06 |
|------------|---|----|----------|
| F | ADD HOLES FOR SEALANT ON -101 | CP | 04.09.10 |
| E | NEW 8" MIRROR | CP | 01.05.08 |
| D | NEW 6" MIRROR, ADD NUT, REMOVED STUD | CP | 01.04.23 |
| C | REPLACE DOMINION AUTO-MIRRORS WITH PHILLIPS, ADDED STUDS, REDRAWN | RF | 99.06.01 |
| B | SIKAFLEX 241 ADDED | JB | 98.04.09 |
| A | DWG NO. WAS DSP1011, ADDED -103 | JB | 90.06.15 |
| - | NEW ISSUE | JB | 90.03.31 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | JB | | |
| DRAWN | | | |
| CHECKED | | | |
| MFG. APPR. | | | |
| APPROVED | | | |
| DE APPR. | | | |
| DATE | 08.10.06 | | |

| | |
|--|--------------|
| DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWING NO. D2011 | REV. G |
| SHEET 1 OF 1 | |
| TITLE MIRROR ASSEMBLY | SCALE NTS |
| COPYRIGHT © 1991 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | |

RELEASED
08-10-29-11

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED
SUBJECT TO AMENDMENTS
WITHOUT NOTICE
WORK ORDER NO. 43235



**AUTO PARTS • PIÈCES D'AUTO
TRUCK PARTS • PIÈCES DE CAMION
ENGINE-MARINE • MOTEUR-MARINE
PERFORMANCE PARTS • PIÈCES DE PERFORMANCE
TIRES • PNEUS**



Past due accounts bear 2% interest per month (24% per annum). If this account is placed with a 3rd party collection, an administrative cost of 25% will be added. All exchanges and refund claims must be accompanied by this invoice. Electrical parts not returnable. All parts returned are subject to 20% handling charge. All merchandise sold on this invoice remains the vendor's property until this invoice is paid in full.
TERMS: Payment due on 10th day of the following month.

Aucun remboursement sans cette facture. Net 30 jours, 2% de frais d'intérêt par mois (24% par année) sur compte en souffrance. 20% de frais de manutention sur toute marchandise retournée. Clause pénale: une indemnité de 25% sera chargée sur compte sujet à des procédures légales. Les marchandises mentionnées sur cette facture demeurent la propriété du vendeur tant qu'elles ne seront pas entièrement payées. Pièces électriques non-retournable.
TERMS: Compte payable le 10 du mois suivant.

SIGNATURE _____

1000 RUE LANDSDOWNE HAWKESBURY, ON K6A 1H7
TEL: (613)632-1191 FAX: (613)632-2350

GST / TPS
10035 3366 RT0001

TVQ
1016330716 TQ0001

New Ontario Environmental Protection Fees will be in effect July 1st 2008
More information can be found at www.stewardshipontario.ca/mhsw

113336 (613)632-5200
DART AEROSPACE LTD.
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7

EXPEDITION
SHIPPIER
TO

113336

*** SAME ***

DATE: 11/14/08
07:54
111 MLP

0007526

| ORD / COM | SHIP / EXP | CODE | PART No / PIÈCES | DESCRIPTION | LIST EACH / CHACUN | COST / COÛTANT | EXTENSION | |
|----------------------|-------------|--------|------------------|--------------------|--------------------|----------------|-----------|----------------------|
| 31 | 31 | TWD> | CHM10601 | 6 CONV. MIRROR, S/ | | 18.95 | 587.45 | |
| | | | twd - 58425 | PIECES / CORE | 0.00 | | 0.00 | |
| | 31 | *** | SHIP VIA | REGUL | | | | |
| | | | | <i>Merçi</i> | | | | |
| | | | | <i>Amglat</i> | | | | |
| INVOICE No / FACTURE | TYPE / SORT | TOTAL | DISC | ESC | FRT / TRANS | GST / TPS | PST / TVQ | AMT to PAY / À PAYER |
| 11911213 | INVOICE | 587.45 | | 0.00 | 0.00 | 29.37 | 0.00 | 616.82 |

DART

Purchase Order

| | |
|-------------------------------------|-----------|
| Date Nov 06, 2008 | Page 1 |
| Purchase Order Number PO00007526 | |

Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7
Phone: (613)632-9577
Fax: (613)632-1053

FAKED
6/23/08

Vendor Address:

Auto Parts Extra
1000 rue Lansdowne
Hawkesbury, ON K6A 1H7
Canada
Phone (613) 632-1191
Fax (613) 632-2350

Ship To:

Main Finished Goods Location
Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7

| | | | | | | |
|-----------|---------|----------------------------|-------------------------|--------------|-------------------|----------------------------------|
| Reference | Contact | Vendor Number VC-AUT001 | PO Date Nov 06, 2008 | Terms N30 | Ship Via yours | Expected Arrival Nov 10, 2008 |
|-----------|---------|----------------------------|-------------------------|--------------|-------------------|----------------------------------|

| Qty. Ordered | Item Number | Description | Expected Arrival | Drop-Ship | Unit Cost | UOM | Extended Price |
|--------------|-------------|--|------------------|-----------|-----------|------|----------------|
| 31.0000 | CHM10601 | Mirror 6" B43235 Comments: AS PER DWG D2011 REV. G P/N: CHM10601 B43235 | 10/11/2008 | No | 18.950000 | Each | 587.45 |

CERTIFICATE OF CONFORMITY
REQ'D UPON DELIVERY

Comments:**Tax Summary:**

GST 29.37
GSTME 0.00
GSTND 0.00

Less:

included tax

0.00

Subtotal

587.45

Total tax

29.37

Total purchase order in

CAD Dollars

616.82

Entered By: *CL* CLAYVOIE

Approved By: *W*

Eric Charbonneau

From: David Shepherd [dshepherd@dartaero.com]
Sent: November 18, 2008 2:55 PM
To: 'Eric Charbonneau'; 'Jason Murdoch'
Cc: 'David Duval'; 'Mike Petsche'; 'Marc Bellavance'; 'L Lacelle'; 'Bill Beckett'
Subject: RE: 6" mirror

Eric/Jason,

As discussed at the Engineering Mtg this morning, I am in agreement with Marc's 2nd opinion on the 6" mirror as outlined below. My recollection was that we started testing the 6" mirrors only when we found out the mirror faces were falling out in flight and we had to start gluing them in.

When I reviewed the revised drawing, I noticed that the pull testing was being eliminated. It was my understanding that the new mirror has been tested several times and we don't have the same concern about mirror faces falling out. We currently do not test the 8" mirror at all. It is not general practice to pull something to limit load during production because it tends to weaken the part.

So, I think we should go lean and eliminate the 50 lb pull test on the mirrors.

David

PS. Having said this, mirrors will spontaneously start falling apart again in the air.

From: Marc Bellavance [rtaero.com <mailto:mbellavance@dartaero.com>]
Sent: Tuesday, November 18, 2008 6:43 AM
To: 'Eric Charbonneau'; 'Jason Murdoch'; 'David Shepherd'; 'Mike Petsche'
Cc: 'David Duval'
Subject: RE: 6" mirror

Come to think of it, and someone please correct me if I'm wrong, the purpose of the test on Rev. F was to ensure that the Sikaflex was holding the mirror to the housing.

With Rev. G, there is no more need for Sikaflex because the mirror passed the pull test and this is why the note has been removed.

I have agreed with Jason in a previous email but I'm changing my position on the basis of what led to the removal of the note.

Furthermore, we are not testing the -103 Mirror and for the same reason.

So I don't see why we need to do the pull test anymore.

Marc Bellavance

Mechanical Designer/Technical Support

DART aerospace Ltd.

Tel: 613-632-5200 Ext. 240

Fax: 613-632-9311

E-mail: [HYPERLINK "rtaero.com"mailto:mbellavance@dartaero.com"mbellavance@dartaero.com](mailto:HYPERLINK \)

Web: [HYPERLINK "rtaero.com" http://www.dartaero.com/"www.dartaero.com](HYPERLINK \)

From: Eric Charbonneau [rtaero.com <mailto:echarbonneau@dartaero.com>]
Sent: November 18, 2008 8:18 AM
To: 'Jason Murdoch'; 'David Shepherd'; 'Mike Petsche'
Cc: 'David Duval'; mbellavance@dartaero.com
Subject: RE: 6" mirror